

FIGURE 3 (1)

ATGGCCCAAGCCCTGCCCTGGCTCCTGCTGTGGATGGCGCGGGAGTGTGCTGCCAC
M A Q A L P W L L L W M G A G V L P A H
GGCACCAGCAGGCATCCGGCTGCCCCCTGCGCAGCGGCTGGGGGCGCCCCCTGGGG
G T Q H G I R L P L R S G L G G A P L G
CTGGGCTGCCCCGGGAGACCGACGAAGAGCCCGAGGAGCCCGCGGGAGGGGAGCTTT
L R L P R E T D E E P E E P G R R G S F
GTGGAGATGGTGACAACCTGAGGGGCAAGTCGGGGCAGGGCTACTACGTGGAGATGACC
V E M V D N L R G K S G Q G Y Y V E M T
GTGGGCAGCCCCCGCAGACGCTCAACATCCTGGTGGATACAGGCAGAGTAACCTTTGCA
V G S P P Q T L N I L V D T G S S N F A
GTGGGTCTGCCCCCACCCTTCCTGCATCGCTACTACCAGAGGCAGCTGTCCAGCACA
V G A A P H P F L H R Y Y Q R Q L S S T
TACCGGACCTCCGGAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAAGGGGAG
Y R D L R K G V Y V P Y T Q G K W E G E
CTGGGCACCGACCTGTAAGCATCCCCATGGCCCCAACGTCACTGTGCGTGCCAACATT
L G T D L V S I P H G P N V T V R A N I
GCTGCCATCACTGAATCAGACAAGTTCTTCATCAACGGCTCCAAGTGGGAAGGCATCTG
A A I T E S D K F F I N G S N W E G I L
GGGCTGGCCTATGCTGAGATTGCCAGGCCTGACGACTCCCTGGAGCCTTTCTTTGACTCT
G L A Y A E I A R P D D S L E P F F D S
CTGGTAAAGCAGACCCACGTTCCCAACCTCTTCTCCCTGCAGCTTTGTGGTGTGGCTTC
L V K Q T H V P N L F S L Q L C G A G F
CCCCTCACCACTCTGAAGTGTGGCCTCTGTGGAGGGAGCATGATCATTGGAGGTATC
P L N Q S E V L A S V G G S M I I G G I
GACCACTCGCTGTACACAGGCAGTCTCTGGTATACACCCATCCGGCGGAGTGGTATTAT
D H S L Y T G S L W Y T P I R R E W Y Y
GAGGTCACTATTGTGCGGGTGGAGATCAATGGACAGGATCTGAAATGGACTGCAAGGAG
E V I I V R V E I N G Q D L K M D C K E
TACAACTATGACAAGAGCATTTGTGGACAGTGGCACCACCAACCTTCGTTTGCCCAAGAAA
Y N Y D K S I V D S G T T N L R L P K K
GTGTTTGAAGCTGCAGTCAATCCATCAAGGCAGCCTCCTCCACGGAGAAGTTCCTGAT
V F E A A V K S I K A A S S T E K F P D

FIGURE 3 (2)

GGTTTCTGGCTAGGAGAGCAGCTGGTGTGCTGGCAAGCAGGCACCACCCCTTGGAAACATT
G F W L G E Q L V C W Q A G T T P W N I
TTCCCAAGTCATCTCACTCTACCTAATGGGTGAGGTTACCAACCAGTCCTTCCGCATCACC
F P V I S L Y L M G E V T N Q S F R I T
ATCCTTCCGCAGCAATACCTGCGGCCAGTGGAAGATGTGGCCACGTCCTCAAGACGACTGT
I L P Q Q Y L R P V E D V A T S Q D D C
TACAAAGTTTGCCATCTCACAGTCATCCACGGGCACCTGTTATGGGAGCTGTTATCATGGAG
Y K F A I S Q S S T G T V M G A V I M E
GGCTTCTACGTTGTCTTTGATCGGGCCCCGAAAACGAATTGGCTTTGCTGTCTCAGCGCTTGC
G F Y V V F D R A R K R I G F A V S A C
CATGTGCACGATGAGTTTCAGGACGSCAGCGGTGGAAGGCCCTTTTGTACCTTGGACATG
H V H D E F R T A A V E G P F V T L D M
GAAGACTGTGGCTACAACATTCACAGACAGATGAGTCAACCCCTCATGACCATAGCCTAT
E D C G Y N I P Q T D E S T L M T I A Y
GTCATGGCTGCCATCTGCGCCCTCTTCATGCTGCCACTCTGCCCTCARGGTGTGTCASTGG
V M A A I C A L F M L P L C L M V C Q W
CGCTGCCCTCCGCTGCCCTGCGCCAGCAGCATGATGACTTTGCTGATGACATCTCCCTGCTG
R C L R C L R Q Q H D D F A D D I S L L
AAGTGAGGAGGCCCATGGGCAGAAGATAGAGATTCCCCTGGACCACACCTCCGTTGTTCA
K
CTTTTGTCAACAAGTAGGAGACACAGATGGCACCTGTGGCCAGAGCACCTCAGGACCCCTCC
CCACCCACCAATGCCTCTGCTTGTATGGAGAAGGAAAAGGCTGGCAAGGTGGGTTCACAG
GGATGTACCTGTAGGAAACAGAAAAGAGAGAAAGAAAGCACTCTGCTGCGCGGAATACT
CTTGCTCACTCAAAATTTAAGTCGGGAAATTCCTGCTGCTTGAAACTTCAGCCCTGAACCT
TTGTCCACCATTCCTTTAAATTCCTCAACCCAAAGTATTCTTCTTTCTTAGTTTCAGAA
GTACTGGCATCACACGCAGGTTACCTTGGCGTGTGTCCCTGTGTTACCTTGCAGAGAAG
AGACCAAGCTTGTTCCTGCTGGCCAAAGTCAGTAGGAGAGGATGCACAGTTTGTCTATT
TGCTTTAGAGACAGGGACTGTATAACAAGCCTAACATTGGTGCAAGATTGCCTCTTGA
ATTAAAAA

FIGURE 4

ATGGCCCCAGCGCTGCACTGCTCCTGCTATGGCTGGGCTCGGGAATGCTGCTGCCAG
 M A P A L H W L L L W V G S G M L P A Q
 GGAATCCATCTGGGCTCGGCTGCCCCCTCGGACGGGCTCGGACGGGCTACCCCTGSGC
 G T H L G I R L P L R S G L A C P F L C
 CTGAGGCTGCCCCGGGAGACTGACGAGGAATCGGAGGAGCTGCTGCCGGAGAGGCGCTTT
 L R L P R E T D E E S E E P G R R G S F
 GTGGAGATGCTGACAACTGAGGGGAAGTCCGGCCAGGGCTACTATGTGGAGATGACC
 V E H V L N L P G K S G Q G Y Y V E M T
 GTAGGCGAGCCCCACAGAGCTCAACATCCTGGTGACACGGGCACTAGTAACCTTTGCA
 V G S P P Q T L N I L V D T G S S N F A
 GTGGGGCTGCCCTCACACCTTTCTGCTGCTACTACAGAGGCGAGCTGTCAGGCACA
 V G A A P E P F L H R Y Y Q R Q L S S T
 TATGAGAGCTCCGAAAGGGTGTGTATGTGCTTACACCCAGGGCAAGTGGAGGGGGAA
 Y R D L R K G V Y V P Y T Q G K W E G E
 CTGGGCGAGGCTGCTGGTGGAGCTCCCTCATGGCCCCAACGTCACTGTGCTGCCAAGCT
 L G C T D L V S I P H G P N V T V R A N I
 GCTGCTCACTAATCGACAAGTTCTTCAATAGTTTCAACTGGAGGGGATCCTA
 A A I T E S D K F F I N G S N W E G L
 GGGCTGGCTATGCTGAGATGCCAGGCGGACGACTCTTTGGAGCCCTTTTGTACTCC
 G I A Y A E I A R P D D S L E P F F D S
 CTGGTAGGCGAGCCACATTCCTCAACATCTTTTCTGCTGAGCTCTGCTGGCGCTGGCTTC
 L V R Q T H I P N I F S L Q L C G A G P
 CCCCCTACAGAGCGGAGGCTGCGCTCGGTGGAGGCGAGCATGATCATGCTGCTATC
 P I N Q T E A L A S V G G S M I G G I
 GACCACTCGCTATACAGGGGCTCTCTGCTACACCCATCTGGCGGGAGTGGTATTAT
 D P S L Y T G S L W Y T P I R R E W Y Y
 GAAGTGAATCTGTACCTGTGGAATCAATGCTCAAGATCTCAAGATGAGTGCAGGAG
 E V I I V R V E I N G C D L K M D C K E
 TACAACTACGACAAGGAGCTGTGGAGCTGGGACCCAGCTTTGCTTCCCCAAGAAA
 Y N Y D K S I V D S G T T N L R L P K K
 GTATTGAGAGCTGGCTCAATCCATCAAGGCGCTCTCTGAGCGAGAGGATTCCTGGAT
 V F E A A V K S I K A A S S T E K F P D
 CCGTTTCTGCTACCGGACCACTGCTGTGCTGGCAAGCGGACGACCCCTTGGAAACAT
 G F W L G E Q L V C W Q A G T T P W N I
 TTTCCAGTCATTTCATTATCTCATGGGTGAAGTCAACCAATCACTCTTCCGATCACC
 F P V I S L Y L M G E V T N Q S F R I T
 ATCTCTTCTCAGCAATACCTACGGCGGCTGGAGGAGCTGGCCACGTCCTCAAGACGACTGT
 I L Q Q Q Y L R P V E D V A T S Q D D C
 TACAAGTTCGCTGTCTCACTCATCCAGGGGCTGTATGGGAGCCGCTCATCATGGA
 Y K F A V S Q S S T G T V M G A V I M E
 GGTTCCTATGCTGCTCTCGATCGAGCCGGAAGCGAATTGGCTTTGCTGCTCAGCGCTTC
 G F Y V V F D R A R K R I G F A V S A C
 CATGTGCAGGATGAGTTCAAGACGCGCGGAGTGGAGGCTCCGTTTGTACGGCAGACATG
 H V H D E F F T A A V E G P F V T A D M
 GAAGACTGTGCTACAACTTCCCAGACAGATGASTCAACACTTATGACCATAGCCCTAT
 E D C G Y N I P Q T D E S T L M T I A Y
 GTCATGCGCGGCTATGCGGCTCTTCATGTTGCCACTCTGCTCATGCTATGCTCAGTGG
 V M A A I C A L F M L P L C L M V C Q W
 GCGAGCTGCGGTGCTGCGGACGACGAGGATGCTTTCGATGACATCTGCTGCTC
 R C L R C L R H Q H D D F A D D I S L L
 AAGTAAGGAGGCTCTGGGCGAGTGTGAGAGCGCCCTGGACCACTCTGGGTGCTTCC
 K
 CTTTGGTCACTGAGTTGGAGCTATGGATGCTACCTGTGGCCAGAGCACCTCAGGACCT
 CACCAACCTGCCAATGCTTCTGGCTGACAGAACAGAGAAATCAGGCAAGCTGATTTACA
 GGGCTTGCCTCTGTAGGACACAGGAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
 CCTTAGGCAACACAACTTCACTTCAAAATTTTCTGCTTGAAGCTTCAAGCTTCAAGCTT
 CTGCGAGCATCTTTAAGTCTCTCAACCTTAAAGTATTTCTTATGCTCTTCCAGAGTAC
 TGGCTCATACTCAGGCTACCTGGCATGTGTCCTGTGTTACCTGCGAGAGAGAGGAGGAG
 AATCTCATTTCTCTGCGCAAGTCAAGCAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAG
 TGTATAGGAGTGCAGACTCAAGCTTACCTGCTACAAAGACTGCGCTCTTGAATAAACAA
 GAA